

CLAIMS

1. An electric power steering device comprising:

a rack shaft engaged with a steering pinion and constructed to be movable reciprocally to follow rotational motion of the steering pinion;

a rack housing receiving the rack shaft to be movable therein;

a sleeve taking a generally cylindrical shape and arranged coaxially around the rack shaft through a ball screw mechanism formed externally of the rack shaft;

a brushless motor taking a generally cylindrical shape, arranged almost coaxially between the rack housing and the sleeve and constructed to rotate the sleeve; and

a rotational angle sensor received inside the rack housing and constructed to detect the rotational angle of the brushless motor,

wherein the rack housing has arranged thereon a power connector containing power terminals for supplying electric power to the brushless motor and a sensor connector containing output terminals for outputting a detection signal of the rotational angle sensor, and

wherein the power connector and the sensor connector are arranged to be shifted on the same side in the axial direction of the rack shaft with respect to the brushless motor.

2. The electric power steering device as set forth in Claim 1, wherein the rack housing comprises a first rack housing receiving the brushless motor and the rotational angle sensor therein and securing the power connector and the sensor connector thereto and a second rack housing connected to the first rack housing in the axial direction and wherein the rotational angle sensor, the

power connector and the sensor connector which are secured to the first rack housing are arranged at respective places closer to the second rack housing than the brushless motor.

3. The electric power steering device as set forth in Claim 1, wherein the sensor connector and the power connector are arranged on the external surface of the rack housing with an interval of more than 0 and less than 180 degrees in the circumferential direction.

4. The electric power steering device as set forth in Claim 2, wherein the sensor connector and the power connector are arranged on the external surface of the rack housing with an interval of more than 0 and less than 180 degrees in the circumferential direction.